

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/009679

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B21B35/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B21B F16D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 101 58 711 A (SMS MEER GMBH) 26 June 2003 (2003-06-26) figures 1,2	1-11
A	EP 0 728 538 A (KOYO SEIKO CO) 28 August 1996 (1996-08-28) figures 1,2	1
A	US 4 392 759 A (COOK PAUL M) 12 July 1983 (1983-07-12) cited in the application figures 1-4	1

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

G document member of the same patent family

Date of the actual completion of the international search

19 November 2004

Date of mailing of the international search report

03/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Forciniti, M

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International Application No

PC17/EP2004/009679

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
DE 10158711	A	26-06-2003	DE	10158711 A1	26-06-2003
EP 0728538	A	28-08-1996	JP	8226452 A	03-09-1996
			DE	69602387 D1	17-06-1999
			DE	69602387 T2	16-12-1999
			EP	0728538 A1	28-08-1996
US 4392759	A	12-07-1983	NONE		

BEST AVAILABLE COPY